IV. (U) BASIC RESEARCH:

1. Neurophysiological Correlates:

- Determine potential magnetoencephalograph (MEG) visual response correlates:
  - Between talented people and a variety of external near-field stimuli conditions.
  - Between talented people and a variety of external far-field stimuli conditions.
- Determine potential MEG non-visual correlates:
  - Between talented people and a variety of external near and far field stimuli conditions.
- Initiate research to identify and locate brain areas where parapsychological data may originate:
  - Extend research to show how data is eventually processed into conscious awareness.

2. Psychophysical Correlates:

- Determine potential for psychophysical parameters:
  - Galvonic skin response (GSR).
  - Other central nervous system (CNS) parameters.
  - Role of distance and other variables.
  - Potential for counter-influence.

3. Physical/Psychophysical Model Exploration:

- Role of target "state" (degree of energy, chaos, size, distance, shielding, target format, etc.).
- Role of psychological factors (goal, empathy, target type, etc.).

- Role of other possible influencing parameters (i.e., no "sender" present, presence of "sender," and degree of linkage).

- Other candidate factors.

4. Altered State Investigations:

   - Determine if various altered states can improve data reliability (eg., lucid states, deep relaxation conditions).

   - Determine if various altered states correlate with cognitive style or with target type.

5. Potential Influences of External Fields:

   - Determine if geomagnetic influence can affect results.

   - Develop new experiments with adjustable external field conditions.

6. Develop a Comprehensive Target Pool:

   - To help sort out possible target characteristic influences.

   - To use as a possible screening device.

   - For assessing application issues.

7. Initiate Evaluation of "Energetics":

   - Identify possible "follow-on" with available select talent (when located).

   - Visit people/areas to observe demonstration.

   - Identify equipment monitoring needs.

V. (U) APPLIED RESEARCH:

1. Neurophysiological Correlates:

- Develop magnetoencephalograph (MEG) screening/selection techniques (visual, non-visual).
  - Measure sufficient known talent.
  - Measure other select populations (e.g., creative, yogi, martial arts).
  - Measure general population.
- Examine feasibility for refinement to permit talent sorting according to task type or need (e.g., visual vs. verbal style).
- Perform follow-on talent validation experiment with new candidates to confirm MEG findings.
- Use as a check for training/development status or progress.
  - Evaluate individual strategies.
  - Evaluate specified training programs.
  - Examine feasibility of transmitting information (i.e., via redundancy coding methods) for near-field and far-field conditions according to cognitive style.

2. Physiological Correlates:

- Determine potential of information transmission via GSR or other CNS parameters.

3. Application-Oriented Issues:

- Investigate neurophysiological/psychophysical measures useful for predicting data quality.
- Determine if self reports, focused intent, or other factors can be found that help in predicting data quality.

- General screening investigations:
  - Develop new target pools that are comprehensive and can identify various talent and talent preferences.
  - Conduct in-depth study of people previously involved in this research to search for patterns in background, personality, or other factors.
  - Reassess/investigate psychological or psychophysical measures that show promise for screening:
    - Defense Mechanism Test (DMT).
    - Stanford Hypnotic Suggestibility Scale.
    - Subliminal Perception Responses.
- Application improvements (Intelligence Related):
  - Examine methods for improving information quality or reliability:
    - New internal strategies.
    - Task/response timing.
    - Specific goal setting.
    - Spatial/temporal issues on strategies for search improvement.
    - Determine if results from conventional altered state research have applicability to application quality/reliability improvement.
    - Conduct various experiments, review data bases, and apply various evaluation methods to determine application potential and to identify methods of improving data quality as appropriate.

Explore other applications:

- Communications potential:

- Use of redundancy coding (with conscious response).
- Incorporate with other basic/applied projects.
- Simulate "real" problems:
  - Hostages (lost people).
  - Underground or submarine environment.

- Predictive:
  - Identify approaches for follow-on.
  - Involve other labs, other talent.
  - Examine influences of event complexity, time-of-occurrences.
  - Tie to psychological/cognitive style.

- Code breaking:
  - Perform preliminary investigations for follow-on.

- Training Developments:
  - Develop improved ways t measure or evaluate the role of training, the training method, practice, goal setting, session timing, or other factors.
  - Review a wide variety of "training development" approaches to identify candidate avenues for new basic/applied research (e.g., potential use of subliminal perception training).
  - Compile appropriate evaluation procedures and statistics:
    - Use of control groups.
    - Improved artificial intelligence methods.

- Bias detection methods.
- Other

VI. (U) OTHER ACTIVITIES:

SG1B [redacted]

2. Develop "Multi-Disciplined: Research Plan:
   - To incorporate findings from FY91 work.
   - Develop new interlab/interdisciplinary links with:
     - Neuro-cognitive sciences.
     - Optical data processing/neuro network technology.
     - Altered state research:
       - Hypnogogic/Hypnopompic
       - Other
     - Advanced physical theories:
       - Recent viewpoints on gravitation.
       - Postulates involving scalar waves.
       - Other

3. Activity Support:
   - Research Management.
   - Scientific Oversight Committee (SOC).
   - Human Use Review.
   - Computer Support.
   - Misc. (Admin., TDY).

VII. (U) SCHEDULE CONSIDERATIONS:

(U) The following pages contain table summaries of key activities identified in the previous sections. Estimated level-of-effort, as well as key milestones and other data, are included on the tables.

EXTERNAL SUPPORT - FY91

BASIC RESEARCH

AREA	EST. LEVEL OF EFFORT	EST. START	EST. COMP.	INTERFACE
1. Neurophysiological Correlates				
- Visual Response MEG				
- Non-Visual MEG				
- For Select and Control Groups				
- For Near and Far Field				
2. Physiological Correlates				
- Candidate CNS				
- Near and Far Field				

SECRET

EXTERNAL SUPPORT - FY91

BASIC RESEARCH

AREA	EST. LEVEL OF EFFORT	EST. START	EST. COMP.	INTERFACE

3. Energetics Phenomenon
   - Initiate Review
   - Locate People
   - Develop In-Depth Plan
   - Identify Equipment

4. Physical/Psychophysical
   - Physical, Cognitive Constructs
     - Target State, Environment
     - Possible Variables
   - Comprehensive Target Pool
   - External Field Effects

EXTERNAL SUPPORT - FY91

BASIC RESEARCH

AREA	EST. LEVEL OF EFFORT	EST. START	EST. COMP.	INTERFACE

5. Altered State Investigations

   - Lucid States; Other Noise Reduction Conditions
   - Correlation to Cognitive Style

6. Review of Relevant Conventional Research

   - Neurosciences/Biophysical
   - Advanced Physics
   - Psychological Issues

EXTERNAL SUPPORT - FY91

APPLIED RESEARCH

AREA	EST. LEVEL OF EFFORT	EST. START	EST. COMP.	INTERFACE

1. Neurophysiological Correlates
   - Visual MEG
   - Non-visual MEG
   - Select, Control Groups
   - Information Transmission

2. Physiological Correlates
   - CNS Parameters
   - Screening/Selection
   - Information Transmission

EXTERNAL SUPPORT - FY91

APPLIED RESEARCH

AREA	EST. LEVEL OF EFFORT	EST. START	EST. COMP.	INTERFACE

3. Application Enhancement

- Factors for Predicting/ Improving Data Quality
  - Pattern Analysis
  - Strategies, Training
  - Other
- Use of Multiple Sources
- Task/Person Matching
  - Calibration Target Pools
  - Talent Quantification
- Insight from Talented People
- Use of Selection Aids
  - Psychophysical Measures
  - Subliminal, Other Scales
  - MEG Findings

EXTERNAL SUPPORT - FY91

APPLIED RESEARCH

AREA	EST. LEVEL OF EFFORT	EST. START	EST. COMP.	INTERFACE
4. Explore Various Applications				
- Intelligence Needs				
- Communication Potential				
- Subconscious (MEG)				
- Conscious (RV, Other)				
- Coding Techniques				
- Predictive				
- Preliminary Investigations				
- Develop Follow-On Plan (FY92+)				
- Multi-Labs				
- Timing/Complexity				
- Cognitive Style				
- Code Breaking				
- Preliminary Investigations				

EXTERNAL SUPPORT - FY91

APPLIED RESEARCH

AREA	EST. LEVEL OF EFFORT	EST. START	EST. COMP.	INTERFACE

5. Training/Development Investigations

   - Review Worldwide Literature
   - Role of Training, Practice, Goal Setting, Other

6. Evaluation Procedures/Statistics Manual

   - Research Projects
   - Various Operational Activities

EXTERNAL SUPPORT - FY91

OTHER ACTIVITIES

AREA	EST. LEVEL OF EFFORT	EST. START	EST. COMP.	INTERFACE

SG1B

[redacted]

2. Develop Comprehensive Multi-Disciplinary Plan (For FY92+)

   - Integrated, Multi-Lab
   - Neurosciences/Cognitive Sciences
   - Advanced Research (Physics, Biophysics)
   - Other

EXTERNAL SUPPORT - FY91

OTHER ACTIVITIES

AREA	EST. LEVEL OF EFFORT	EST. START	EST. COMP.	INTERFACE
3. Activity Support				
- Research Management				
- Scientific Oversight Committee (SOC)				
- Human Use Review				
- Computer Support				
- Travel				
- Administration				